

21415-0019.txt
SEQUENCE LISTING

<110> Baell, Jonathan
Huang, David
Smith, Brian J
Street, Ian P

<120> Peptides and Therapeutic Uses Therefor

<130> 21415-0019

<140> US 10/540,390
<141> 2005-12-08

<150> AU 2002953561
<151> 2002-12-24

<150> PCT/AU2003/001724
<151> 2003-12-24

<160> 69

<170> PatentIn version 3.3

<210> 1
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Formula I sequence n=0, m=1

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = any amino acid residue, wherein it is optionally linked to
residue 3 or 7 by a linker

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X = any amino acid residue, wherein it is optionally linked to
residue 2 or 7 by a linker

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = small amino acid residue

<220>
<221> MISC_FEATURE
<222> (6)..(6)

<223> X = acidic amino acid residue

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> X = any amino acid residue, wherein it is optionally linked to residues 2 or 3 by a linker

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X = hydrophobic amino acid residue

<400> 1

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 2

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Formula I sequence n=1, m=1

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> X = hydrophobic amino acid residue

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> X = small amino acid residue

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> X = any amino acid residue, wherein it is optionally linked to residue 4, 6, 7 or 11 by a linker

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> X = any amino acid residue, wherein it is optionally linked to residue 3, 6, 7 or 11 by a linker

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> X = hydrophobic amino acid residue

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> X = any amino acid residue, wherein it is optionally linked to residue 3, 4, 7 or 11 by a linker

<220>

<221> MISC_FEATURE

<222> (7)..(7)
 <223> X = any amino acid residue, wherein it is optionally linked to residue 3, 4, 6 or 11 by a linker

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> X = acidic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is optionally linked to residue 3, 4, 6 or 7 by a linker

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X = hydrophobic amino acid residue

<400> 2

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 3
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula I sequence n=1, m=0

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = any amino acid residue, wherein it is optionally linked to residue 4, 6, or 7 by a linker

<220>
 <221> MISC_FEATURE

<222> (4)..(4)
 <223> X = any amino acid residue, wherein it is optionally linked to
 residue 3, 6 or 7 by a linker

 <220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = hydrophobic amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = any amino acid residue, wherein it is optionally linked to
 residue 3, 4 or 7 by a linker

 <220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = any amino acid residue, wherein it is optionally linked to
 residue 3, 4 or 6 by a linker

 <220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = hydrophobic amino acid residue

 <400> 3

 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5

 <210> 4
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Formula II sequence, m=0

 <220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue wherein it is linked to residue 8 by a
 linker

 <220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = hydrophobic amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = small amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue

 <220>

<221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = any amino acid residue, wherein it is linked to residue 1 by a linker

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = hydrophobic amino acid residue

<400> 4

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5

<210> 5
 <211> 13
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Formula II sequence, m=1

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue, wherein it is linked to residue 8 by a linker

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE

<222> (5)..(5)
 <223> X = any amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = hydrophobic amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = any amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = any amino acid residue, wherein it is linked to residue 1 by
 a linker

 <220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = hydrophobic amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> X = small amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = acidic amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X = any amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> X = hydrophobic amino acid residue

 <400> 5

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 6
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula III sequence m=0

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue, wherein it is linked to residue 8 by
 Page 6

a linker

```

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = small amino acid residue

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X = any amino acid residue, wherein it is linked to residue 1 by
a linker

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X = hydrophobic amino acid residue

<400> 6
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1          5          10

<210> 7
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> Formula III sequence m=1

```

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue, wherein it is linked to residue 1 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = any amino acid residue, wherein it is linked to residue 1 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X = acidic amino acid residue

<220>

<221> MISC_FEATURE
 <222> (13)..(13)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (14)..(14)
 <223> X = hydrophobic amino acid residue

<400> 7

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 8
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula IV sequence p=0

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue, wherein it is linked to residue 8 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = acidic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)

<223> X = any amino acid residue, wherein it is linked to residue 1 by a linker

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> X = hydrophobic amino acid residue

<400> 8

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5

<210> 9

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Formula IV sequence p=1

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> X = hydrophobic amino acid residue

<220>

<221> MISC_FEATURE

<222> (2)..(2)

<223> X = small amino acid residue

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> X = any amino acid residue

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> X = any amino acid residue, wherein it is linked to residue 11 by a linker

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> X = hydrophobic amino acid residue

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> X = any amino acid residue

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> X = any amino acid residue

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = small amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> X = acidic amino acid residue

 <220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X = hydrophobic amino acid residue

<400> 9

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 10
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula V sequence n=0

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = any amino acid residue, wherein it is linked to residue 9 by a
 linker

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = acidic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = any amino acid residue, wherein it is linked to residue 2 by a linker

<400> 10

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5

<210> 11
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula V sequence n=1

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE

<222> (6)..(6)
 <223> X = any amino acid residue, wherein it is linked to residue 13 by a linker

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> X = acidic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> X = any amino acid residue, wherein it is linked to residue 6 by a linker

<400> 11

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 12
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula VI sequence n=0

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)

<223> X = any amino acid residue

<220>

<221> MISC_FEATURE

<222> (3)..(3)

<223> X = any amino acid residue, wherein it is linked to residue 10 by a linker

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> X = hydrophobic amino acid residue

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> X = small amino acid residue

<220>

<221> MISC_FEATURE

<222> (6)..(6)

<223> X = acidic amino acid residue

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> X = any amino acid residue

<220>

<221> MISC_FEATURE

<222> (8)..(8)

<223> X = hydrophobic amino acid residue

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> X = any amino acid residue

<220>

<221> MISC_FEATURE

<222> (10)..(10)

<223> X = any amino acid residue, wherein it is linked to residue 3 by a linker

<400> 12

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10

<210> 13

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Formula VI sequence n=1

<220>

<221> MISC_FEATURE

<222> (1)..(1)

<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (2)..(2)
<223> X = small amino acid residue

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (4)..(4)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (6)..(6)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (7)..(7)
<223> X = any amino acid residue, wherein it is linked to residue 14 by
a linker

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (9)..(9)
<223> X = small amino acid residue

<220>
<221> MISC_FEATURE
<222> (10)..(10)
<223> X = acidic amino acid residue

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> X = any amino acid residue

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> X = hydrophobic amino acid residue

<220>
<221> MISC_FEATURE
<222> (13)..(13)
<223> X = any amino acid residue

<220>

<221> MISC_FEATURE
 <222> (14)..(14)
 <223> X = any amino acid residue, wherein it is linked to residue 7 by
 a linker

<400> 13

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 14
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula VII sequence

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue, wherein it is linked to residue 8 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (3)..(3)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = hydrophobic amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> X = small amino acid residue

<220>
 <221> MISC_FEATURE
 <222> (7)..(7)
 <223> X = acidic amino acid residue

<220>
 <221> MISC_FEATURE

<222> (8)..(8)
 <223> X = any amino acid residue, wherein it is linked to residue 1 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)

<400> 14

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5

<210> 15
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula VIII sequence

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue, wherein it is linked to residue 8 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = any amino acid residue, wherein it is linked to residue 1 by
 a linker

<400> 15

Xaa Ile Ala Gln Glu Leu Arg Xaa Ile Gly Asp Glu Phe
 1 5 10

<210> 16
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Formula IX sequence

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 16

Ile Ala Ala Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 17
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 17

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker.

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 17

Ile Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 18
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 18

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 18

Ile Ala Lys Xaa Leu Ala Lys Ile Gly Asp Xaa Phe
 1 5 10

<210> 19
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 19

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> X = any amino acid residue, wherein it is linked to residue 12 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (12)..(12)
 <223> X = any amino acid residue, wherein it is linked to residue 5 by
 a linker

<400> 19

Lys Tyr Ala Lys Xaa Leu Ala Lys Ile Gly Asp Xaa Phe
 1 5 10

<210> 20
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 20

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 20

Tyr Gly Arg Xaa Leu Arg Arg Met Ser Asp Xaa Phe
 1 5 10

<210> 21
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 21

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 21

Ile Ala Arg Xaa Leu Ala Gln Val Gly Asp Xaa Met
 1 5 10

<210> 22
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 22

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 22

Val Gly Arg Xaa Leu Ala Ile Ile Gly Asp Xaa Ile
 1 5 10

<210> 23
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 23

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 23

Ile Ala Gln Xaa Leu Ser Ser Ile Gly Ser Xaa Phe
 1 5 10

<210> 24
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 24

<220>
 <221> MOD_RES
 <222> (2)..(2)
 <223> Aib

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 24

Ile Xaa Gln Xaa Leu Arg Arg Ile Ala Asp Xaa Phe
 1 5 10

<210> 25
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 25

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 25

Tyr Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 26
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 26

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 26

Ala Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 27
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 27

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 27

Ile Ala Gln Xaa Ala Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 28
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 28

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 28

Ile Ala Gln Xaa Leu Arg Arg Ala Gly Asp Xaa Ala
 1 5 10

<210> 29
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 29

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 29

Ile Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 30
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 30

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE

<222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 30

Ile Ala Gln Xaa Leu Ser Ser Ile Gly Asp Xaa Phe
 1 5 10

<210> 31
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 31

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 31

Ile Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe Asn Ala Ser Phe
 1 5 10 15

<210> 32
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 32

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 a linker

<400> 32

Lys Ile Ala Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 33
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 33

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> X = any amino acid residue, wherein it is linked to residue 8 by
 linker NH(CH₂)₅NH

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> X = any amino acid residue, wherein it is linked to residue 1 by
 linker NH(CH₂)₅NH

<400> 33

Xaa Ile Ala Gln Glu Leu Arg Xaa Ile Gly Asp Glu Phe
 1 5 10

<210> 34
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 34

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 linker NH(CH₂)₅NH

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 linker NH(CH₂)₅NH

<400> 34

Ile Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 35
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 35

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 linker NH(CH₂)₆NH

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 linker NH(CH₂)₆NH

<400> 35

Ile Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 36
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 36

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> X = any amino acid residue, wherein it is linked to residue 11 by
 linker NHCH₂CONH(CH₂)₂NH

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> X = any amino acid residue, wherein it is linked to residue 4 by
 linker NHCH₂CONH(CH₂)₂NH

<400> 36

Ile Ala Gln Xaa Leu Arg Arg Ile Gly Asp Xaa Phe
 1 5 10

<210> 37
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 37

<400> 37

Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn
 1 5 10

<210> 38
 <211> 26
 <212> PRT

<213> Artificial Sequence

<220>

<223> Peptide 38

<400> 38

Asp Leu Arg Pro Glu Ile Arg Ile Ala Gln Glu Leu Arg Arg Ile Gly
1 5 10 15

Asp Glu Phe Asn Glu Thr Tyr Thr Arg Arg
20 25

<210> 39

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide 39

<400> 39

Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn
1 5 10

<210> 40

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide 40

<220>

<221> MOD_RES

<222> (1)..(1)

<223> Biotinylation

<400> 40

Asp Leu Arg Pro Glu Ile Arg Ile Ala Gln Glu Leu Arg Arg Ile Gly
1 5 10 15

Asp Glu Phe Asn Glu Thr Tyr Thr Arg Arg
20 25

<210> 41

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide 41

<400> 41

Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe
 1 5 10

<210> 42
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 42

<400> 42

Gln Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe
 1 5 10

<210> 43
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 43

<220>
 <221> MISC_FEATURE
 <222> (1)..(1)
 <223> linked to residue 8 by a linker

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> linked to residue 1 by a linker

<400> 43

Glx Ile Ala Gln Glu Leu Arg Glx Ile Gly Asp Glu Phe
 1 5 10

<210> 44
 <211> 12
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 44

<220>
 <221> MISC_FEATURE
 <222> (4)..(4)
 <223> linked to residue 11 by a linker

<220>
 <221> MISC_FEATURE
 <222> (11)..(11)
 <223> linked to residue 4 by a linker

<400> 44

Ile Ala Gln Glx Leu Arg Arg Ile Gly Asp Glx Phe
 1 5 10

<210> 45
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 45

<400> 45

Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe
 1 5 10

<210> 46
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 46

<220>
 <221> MISC_FEATURE
 <222> (2)..(2)
 <223> linked to 9 by a linker

<220>
 <221> MISC_FEATURE
 <222> (9)..(9)
 <223> linked to 2 by a linker

<400> 46

Ile Glx Ile Ala Gln Glu Leu Arg Glx Ile Gly Asp Glu Phe Asn Ala
 1 5 10 15

<210> 47
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Peptide 47

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> linked to residue 13 by a linker

<220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> linked to residue 6 by a linker

<400> 47

Ile Trp Ile Ala Gln Glx Leu Arg Arg Ile Gly Asp Glx Phe Asn Ala
 1 5 10 15

<210> 48

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide 48

<220>

<221> MISC_FEATURE

<222> (9)..(9)

<223> linked to residue 16 by a linker

<220>

<221> MISC_FEATURE

<222> (16)..(16)

<223> linked to residue 9 by a linker

<400> 48

Ile Trp Ile Ala Gln Glu Leu Arg Glx Ile Gly Asp Glu Phe Asn Glx
 1 5 10 15

<210> 49

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide 49

<400> 49

Glu Ile Ala Gln Glu Leu Arg Glu Ile Gly Asp Glu Phe
 1 5 10

<210> 50

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Peptide 49

<400> 50

Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn Ala
 1 5 10 15

<210> 51

<211> 16

<212> PRT

<213> Artificial Sequence

<220>
 <223> G (constrained)

<220>
 <221> MISC_FEATURE
 <222> (6)..(6)
 <223> linked to residue 13 by a linker

<220>
 <221> MISC_FEATURE
 <222> (13)..(13)
 <223> linked to residue 6 by a linker

<400> 51

Gln Ala Ile Ala Gln Glx Leu Arg Arg Ile Gly Asp Glx Phe Asn Ala
 1 5 10 15

<210> 52
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> H (linear)

<400> 52

Ile Trp Ile Ala Gln Gln Leu Arg Arg Ile Gly Asp Gln Phe Asn Ala
 1 5 10 15

<210> 53
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> I (linear)

<400> 53

Ile Trp Ala Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn Ala
 1 5 10 15

<210> 54
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> J (linear)

<400> 54

Ile Trp Ile Ala Gln Glu Ala Arg Arg Ile Gly Asp Glu Phe Asn Ala
 1 5 10 15

<210> 55
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> K (linear)

<400> 55

Ile Trp Ile Ala Gln Glu Leu Arg Arg Ala Gly Asp Glu Phe Asn Ala
 1 5 10 15

<210> 56
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> L (linear)

<400> 56

Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Ala Asn Ala
 1 5 10 15

<210> 57
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> M (linear)

<400> 57

Ile Trp Ala Ala Gln Glu Ala Arg Arg Ala Gly Asp Glu Ala Asn Ala
 1 5 10 15

<210> 58
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> N (linear)

<400> 58

Ile Phe Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn Ala
 1 5 10 15

<210> 59
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> O (linear)

<400> 59

Ala	Trp	Ile	Ala	Gln	Glu	Leu	Arg	Arg	Ile	Gly	Asp	Glu	Phe	Asn	Ala
1				5					10					15	

<210> 60

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> P (linear)

<400> 60

Ile	Ala	Ile	Ala	Gln	Glu	Leu	Arg	Arg	Ile	Gly	Asp	Glu	Phe	Asn	Ala
1				5					10					15	

<210> 61

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Q (linear)

<400> 61

Ile	Arg	Ile	Ala	Gln	Glu	Leu	Arg	Arg	Ile	Gly	Asp	Glu	Phe	Asn	Ala
1				5					10					15	

<210> 62

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> R (linear)

<400> 62

Ile	Trp	Ile	Ala	Gln	Glu	Leu	Arg	Arg	Ile	Gly	Asp	Glu	Phe	Ala	Asn
1				5					10					15	

<210> 63

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> S (linear)

<400> 63

Ile	Trp	Ile	Ala	Gln	Glu	Leu	Arg	Arg	Ile	Gly	Asp	Glu	Phe	Ala	Ala
1				5					10					15	

<210> 64
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> T (linear)

<400> 64

Ile Trp Ile Ala Gln Glu Leu Cys Ile Thr Cys Ile Thr Ile Gly Asp
 1 5 10 15

Glu Phe Asn Ala
 20

<210> 65
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> U (linear)

<400> 65

Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly Asp Glu Phe Asn Asn
 1 5 10 15

<210> 66
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Puma

<400> 66

Arg Glu Ile Gly Ala Gln Leu Arg Arg Met Ala Asp Asp Leu Asn Ala
 1 5 10 15

<210> 67
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Bmf

<400> 67

Val Gln Ile Ala Arg Lys Leu Gln Ala Ile Ala Asp Gln Phe His Arg
 1 5 10 15

<210> 68
 <211> 26
 <212> PRT

<213> Artificial Sequence

<220>

<223> hsBimL/Bod (81-106)

<400> 68

Asp Met Arg Pro Glu Ile Trp Ile Ala Gln Glu Leu Arg Arg Ile Gly
1 5 10 15

Asp Glu Phe Asn Ala Tyr Tyr Ala Arg Arg
20 25

<210> 69

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Retro inverso peptide

<400> 69

Ala Asn Phe Glu Asp Gly Ile Arg Arg Leu Glu Gln Ala Ile Trp Ile
1 5 10 15